

Figure 1.

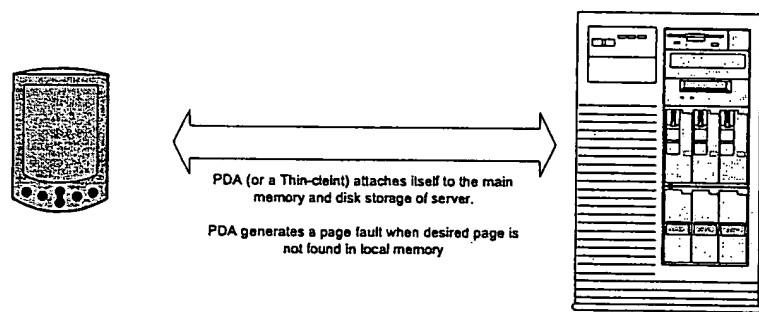


Figure 2:

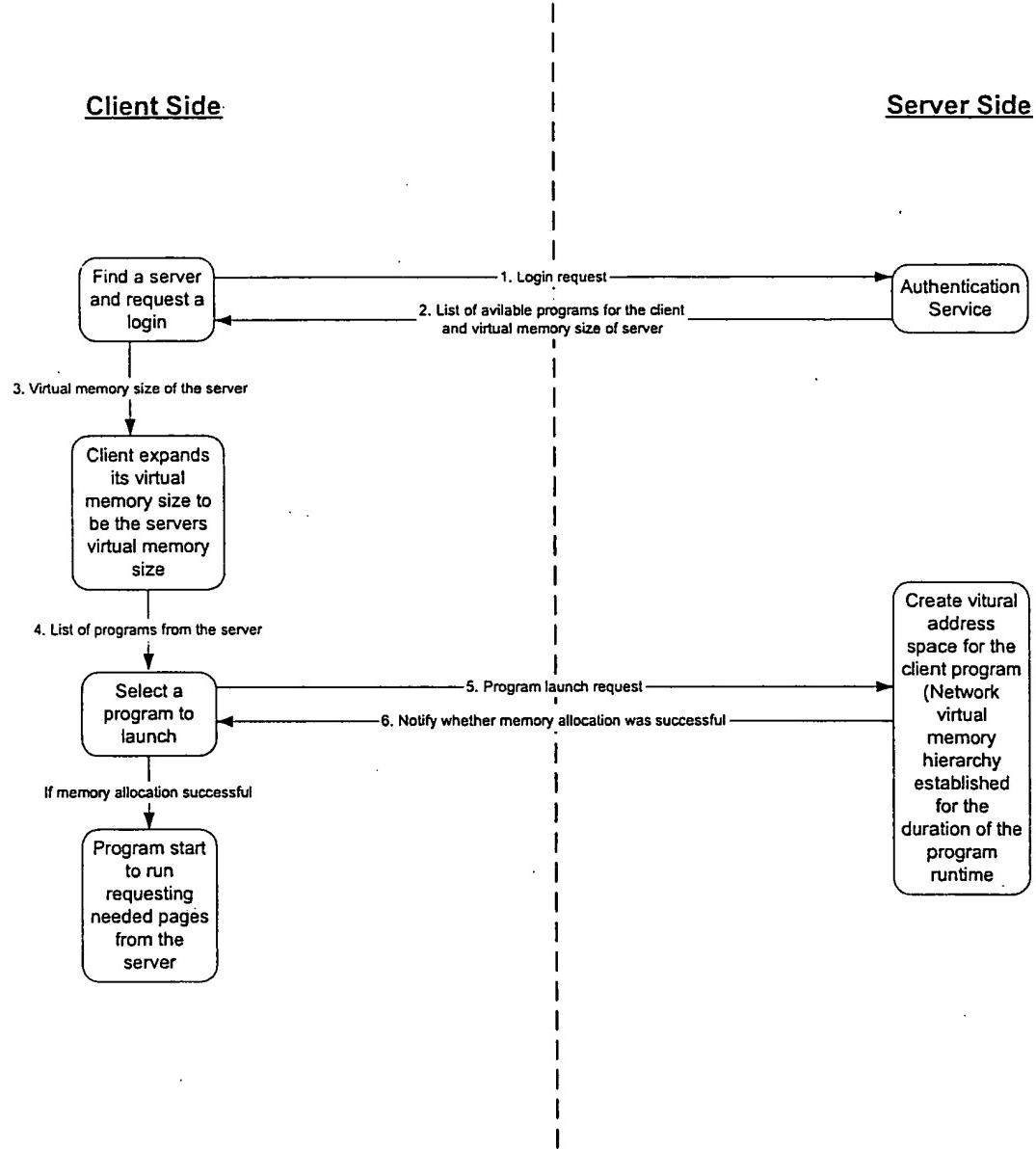


Figure 3:

```
Process PINVM.client ()  
begin  
if (successful contacting a PINVM server)  
    Send the client info. (i.e., architecture, OS, etc.)  
    Prompted login  
    if (login successful)  
        get server's available virtual memory space size for client  
        attach the virtual memory space to the client's memory hierarchy  
        get the list of programs for the client from the server  
    endif  
    When the user wants to launch a program in the server  
        Fork off a child process for a PINVM service for the program  
    EndWhen  
    endif  
endif  
end
```

Figure 4:

```
Process PINVM.application.server.daemon ()  
begin  
name = get application program name to load;  
addrspace = create_vm (name);  
while (not program_termination);  
    virtual_address = wait_for_page_fault (from_client);  
    handle_page_fault(virtual_address);  
    send the page over to the client  
end_while  
end
```

Figure 5: